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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/729,564

12/05/2003

Gary L. Swoboda

TI-34660

2030

23494

7590

03/17/2005

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EXAMINER

BUI, BRYAN

ART UNIT

PAPER NUMBER

2863

DATE MAILED: 03/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/729,564

Applicant(s)

SWOBODA, GARY L.

Examiner

Bryan Bui

Art Unit

2863

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 5-10, 12 and 13 is/are rejected.
- 7) ☒ Claim(s) 3, 4, 11, 14 and 15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-2, 5-10, 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swoboda (US20010039488).

With respect to claims 1, 6-8, and 10, Swoboda teach an apparatus and method in target processor comprising a plurality of event signal generation units, each event signal generation unit providing an event signal in response to a preestablished target processor condition (figure 2, paragraphs 0087 and 0088); a trigger generation unit coupled to the plurality of event signal generation units, the trigger generation unit responsive to at least one preselected event signal/or combination predetermined event signals for generating an associated trigger signal, the trigger generating unit generating a trigger control signal (figure 2, paragraphs 0087 and 0089-0090); a register, the register having the event signals applied to the trigger unit applied thereto, the register responsive to a trigger control signal generated along with the trigger signal (figure 7, and paragraphs 0103 and 0105). Swoboda does not suggest the trigger control signal causing the register to store event signals applied thereto. However, Swoboda teach a register/storage unit for maintaining and selecting the event signal responsive to trigger control signal (paragraphs 0103 and 0105). It would have been obvious to one of

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ordinary skill in the art to modify Swoboda's teachings to include the function of storing event signals as a function of maintaining the event signals for selecting as discloses in paragraphs 0103 and 0105. Swoboda further discloses applying a control signal to the storage unit/register results in application of the contents of the storage unit/register to a read bus (paragraph 0098).

With respect to claim 2, Swoboda further teach at least one event signal generating unit, each event signal generating unit generating an event signal upon identification of a predetermined condition in the target processor (figure 2, paragraphs 0087 and 0088).

With respect to claims 5, 9, and 13, a second register/storage unit responsive to the control signal for storing a program counter address related to the conditions in the target processor resulting in the events signals (paragraph 0090).

With respect to claim 12, wherein the storage unit is a memory-mapped register accessible to an external test and debug device (paragraph 0068).

Allowable Subject Matter

3. Claims 3-4, 11, and 14-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The claims *requires in combination*, wherein a *second control signal* causes the contents of the register to be applied to the read bus; a delay line delaying the

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application of the program counter address to the second storage unit for a predetermined period of time.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan Bui whose telephone number is 571-272-2271. The examiner can normally be reached on M-Th from 7am-4pm, and Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BB
3/15/2005

**BRYAN BUI
PRIMARY EXAMINER**

